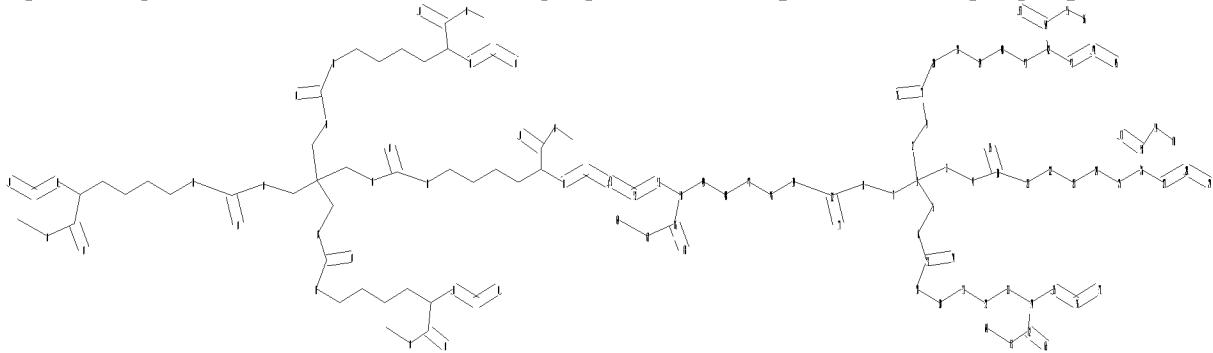


Uploading C:\Documents and Settings\pdickinson\My Documents\prepolymer.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
45 46 47 48

49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69

chain bonds :

1-2 1-3 1-5 1-7 2-9 3-4 4-10 5-6 6-13 7-8 8-12 9-11 10-15 10-21 11-16
11-20 12-17 12-19 13-14 13-18 18-30 19-46 20-38 21-22 22-23 23-24 24-25

25-26 26-27

26-58 27-28 28-29 30-31 31-32 32-33 33-34 34-35 34-62 35-36 36-37 38-39

39-40 40-41

41-42 42-43 42-54 43-44 44-45 46-47 47-48 48-49 49-50 50-51 50-66 51-52

52-53 54-55

54-57 55-56 58-59 58-61 59-60 62-63 62-65 63-64 66-67 66-68 67-69

exact/norm bonds :

2-9 3-4 4-10 5-6 6-13 7-8 8-12 9-11 10-15 10-21 11-16 11-20 12-17 12-19
13-14 13-18 18-30 19-46 20-38 21-22 26-27 27-28 28-29 34-35 35-36 36-37

42-43 43-44

44-45 50-51 51-52 52-53 54-55 54-57 55-56 58-59 58-61 59-60 62-63 62-65

63-64 66-67

66-68 67-69

exact bonds :

1-2 1-3 1-5 1-7 22-23 23-24 24-25 25-26 26-58 30-31 31-32 32-33 33-34
34-62 38-39 39-40 40-41 41-42 42-54 46-47 47-48 48-49 49-50 50-66

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

18:CLASS 19:CLASS

20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS

28:CLASS 29:CLASS

30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS

38:CLASS 39:CLASS

40:CLASS 41:CLASS 42:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS 47:CLASS

48:CLASS 49:CLASS

50:CLASS 51:CLASS 52:CLASS 53:CLASS 54:CLASS 55:CLASS 56:CLASS 57:CLASS

58:CLASS 59:CLASS

60:CLASS 61:CLASS 62:CLASS 63:CLASS 64:CLASS 65:CLASS 66:CLASS 67:CLASS
68:CLASS 69:CLASS

L1 STRUCTURE UPLOADED

=> d 11
L1 HAS NO ANSWERS
L1 STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s 11
SAMPLE SEARCH INITIATED 10:57:05 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.90 1.11

FILE 'CAPLUS' ENTERED AT 10:57:17 ON 27 NOV 2007
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FILE COVERS 1907 - 27 Nov 2007 VOL 147 ISS 23
FILE LAST UPDATED: 26 Nov 2007 (20071126/ED)

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=> s 11

REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 10:57:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

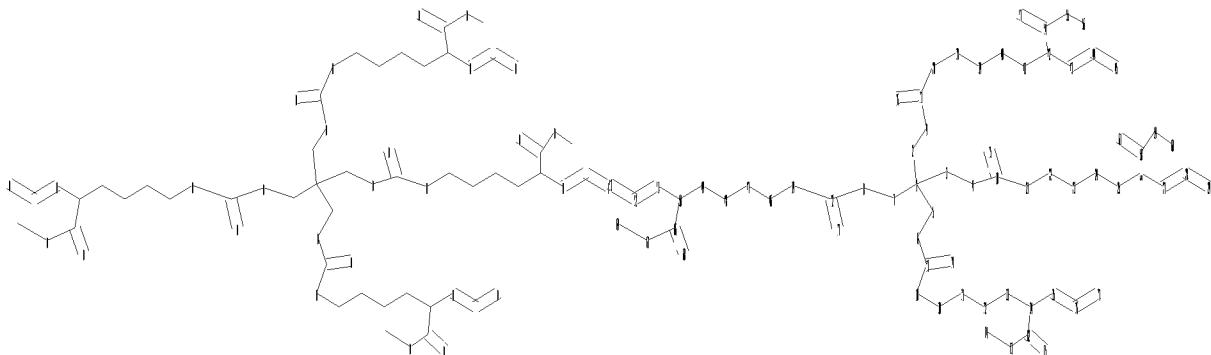
100.0% PROCESSED 2 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L1

L4 0 L3

=>
Uploading C:\Documents and Settings\pdickinson\My Documents\prepolymer contracted.str



chain nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
45 46 47 48
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69
chain bonds :
1-2 1-3 1-5 1-7 2-9 3-4 4-10 5-6 6-13 7-8 8-12 9-11 10-15 10-21 11-16
11-20 12-17 12-19 13-14 13-18 18-30 19-46 20-38 21-22 22-23 23-24 24-25
25-26 26-27
26-58 27-28 28-29 30-31 31-32 32-33 33-34 34-35 34-62 35-36 36-37 38-39
39-40 40-41
41-42 42-43 42-54 43-44 44-45 46-47 47-48 48-49 49-50 50-51 50-66 51-52
52-53 54-55
54-57 55-56 58-59 58-61 59-60 62-63 62-65 63-64 66-67 66-68 67-69
exact/norm bonds :

2-9	3-4	4-10	5-6	6-13	7-8	8-12	9-11	10-15	10-21	11-16	11-20	12-17	12-19
13-14	13-18	18-30		19-46	20-38	21-22	26-27	27-28	28-29	34-35	35-36	36-37	
42-43	43-44												
44-45	50-51	51-52		52-53	54-55	54-57	55-56	58-59	58-61	59-60	62-63	62-65	
63-64	66-67												
66-68	67-69												
exact bonds :													
1-2	1-3	1-5	1-7	22-23	23-24	24-25	25-26	26-58	30-31	31-32	32-33	33-34	
34-62	38-39	39-40	40-41	41-42	42-54	46-47	47-48	48-49	49-50	50-66			

Match level :

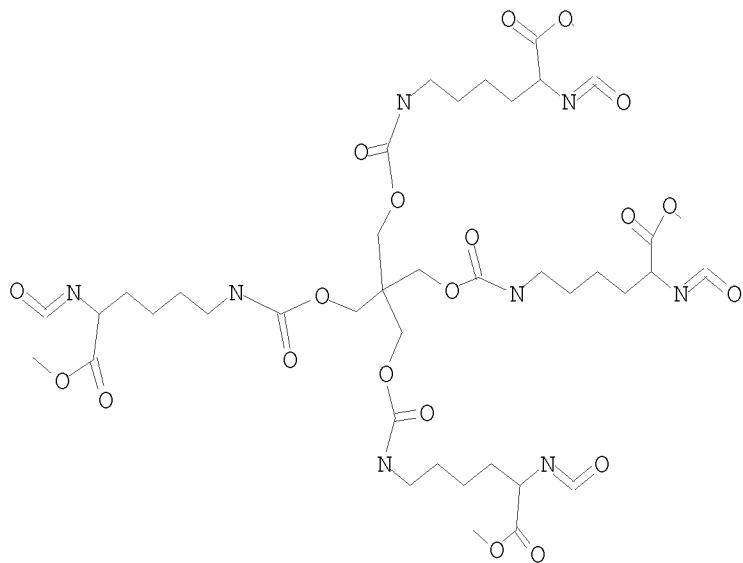
1:CLASS	2:CLASS	3:CLASS	4:CLASS	5:CLASS	6:CLASS	7:CLASS	8:CLASS	9:CLASS
10:CLASS	11:CLASS	12:CLASS	13:CLASS	14:CLASS	15:CLASS	16:CLASS	17:CLASS	
18:CLASS	19:CLASS							
20:CLASS	21:CLASS	22:CLASS	23:CLASS	24:CLASS	25:CLASS	26:CLASS	27:CLASS	
28:CLASS	29:CLASS							
30:CLASS	31:CLASS	32:CLASS	33:CLASS	34:CLASS	35:CLASS	36:CLASS	37:CLASS	
38:CLASS	39:CLASS							
40:CLASS	41:CLASS	42:CLASS	43:CLASS	44:CLASS	45:CLASS	46:CLASS	47:CLASS	
48:CLASS	49:CLASS							
50:CLASS	51:CLASS	52:CLASS	53:CLASS	54:CLASS	55:CLASS	56:CLASS	57:CLASS	
58:CLASS	59:CLASS							
60:CLASS	61:CLASS	62:CLASS	63:CLASS	64:CLASS	65:CLASS	66:CLASS	67:CLASS	
68:CLASS	69:CLASS							

L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 115

L15 NOT FOUND

The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s 15

REG1stry INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 11:00:41 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

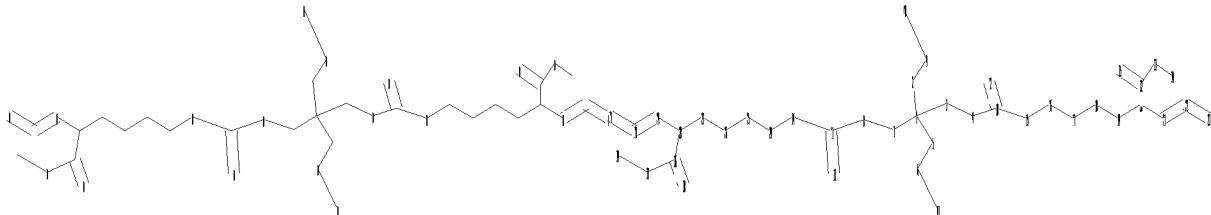
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

L7 0 L6

=>

Uploading C:\Documents and Settings\pdickinson\My Documents\prepolymer 2.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41

chain bonds :

1-2 1-3 1-5 1-7 2-9 3-4 4-10 5-6 6-41 7-8 8-11 9-40 10-12 10-15 11-13
11-14 14-24 15-16 16-17 17-18 18-19 19-20 20-21 20-32 21-22 22-23 24-25
25-26 26-27
27-28 28-29 28-36 29-30 30-31 32-33 32-35 33-34 36-37 36-38 37-39

exact/norm bonds :

2-9 3-4 4-10 5-6 7-8 8-11 10-12 10-15 11-13 11-14 14-24 15-16 20-21
21-22 22-23 28-29 29-30 30-31 32-33 32-35 33-34 36-37 36-38 37-39

exact bonds :

1-2 1-3 1-5 1-7 6-41 9-40 16-17 17-18 18-19 19-20 20-32 24-25 25-26
26-27 27-28 28-36

Match level :

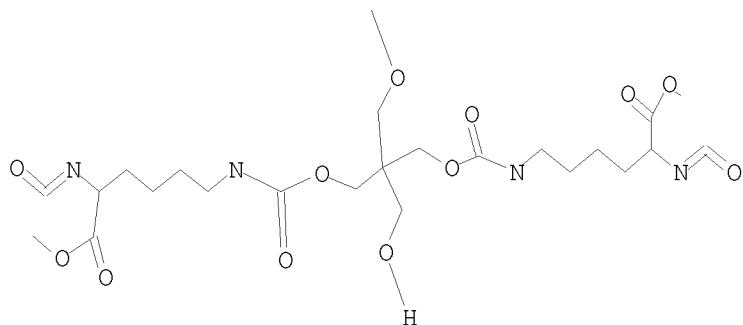
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS
28:CLASS 29:CLASS
30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS
38:CLASS 39:CLASS
40:CLASS 41:CLASS

L8 STRUCTURE UPLOADED

=> d 18

L8 HAS NO ANSWERS

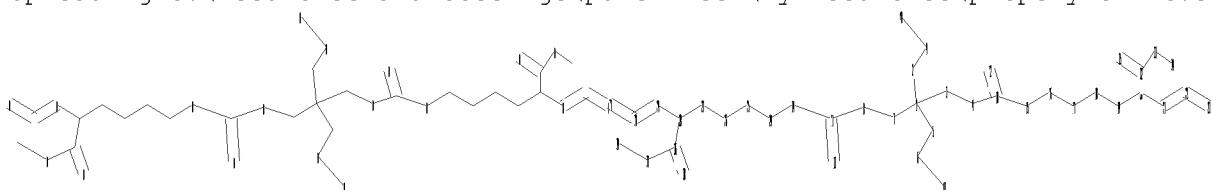
L8 STR



Structure attributes must be viewed using STN Express query preparation.

=>

Uploading C:\Documents and Settings\pdickinson\My Documents\prepolymer 2b.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41

chain bonds :

1-2 1-3 1-5 1-7 2-9 3-4 4-10 5-6 6-41 7-8 8-11 9-40 10-12 10-15 11-13
11-14 14-24 15-16 16-17 17-18 18-19 19-20 20-21 20-32 21-22 22-23 24-25
25-26 26-27
27-28 28-29 28-36 29-30 30-31 32-33 32-35 33-34 36-37 36-38 37-39

exact/norm bonds :

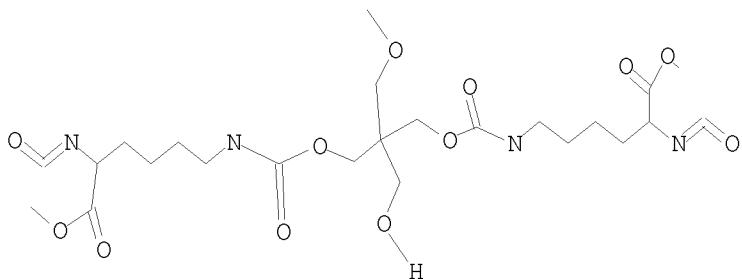
2-9 3-4 4-10 5-6 7-8 8-11 10-12 10-15 11-13 11-14 14-24 15-16 20-21
21-22 22-23 28-29 29-30 30-31 32-33 32-35 33-34 36-37 36-38 37-39
exact bonds :
1-2 1-3 1-5 1-7 6-41 9-40 16-17 17-18 18-19 19-20 20-32 24-25 25-26
26-27 27-28 28-36

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS
28:CLASS 29:CLASS
30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS
38:CLASS 39:CLASS
40:CLASS 41:CLASS

L9 STRUCTURE UPLOADED

=> d 19
L9 HAS NO ANSWERS
L9 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 19
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 11:05:13 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 5 TO ITERATE

100.0% PROCESSED 5 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 5 TO 234
PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L9

L11 0 L10

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:Y

COST IN U.S. DOLLARS

STN INTERNATIONAL LOGOFF AT 11:05:45 ON 27 NOV 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: ssptapwd1618

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 23 OCT 02 CA/CAplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS 24 OCT 19 BEILSTEIN updated with new compounds
NEWS 25 NOV 15 Derwent Indian patent publication number format enhanced
NEWS 26 NOV 19 WPIX enhanced with XML display format

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 NOV 2007 HIGHEST RN 955995-34-3
DICTIONARY FILE UPDATES: 26 NOV 2007 HIGHEST RN 955995-34-3

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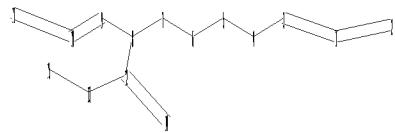
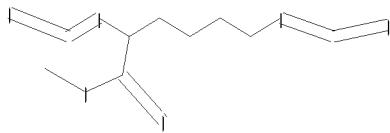
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> Uploading C:\Documents and Settings\pdickinson\My Documents\hexanoate.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

chain bonds :

1-3 1-2 3-4 4-5 5-6 6-7 7-8 8-9 8-12 9-10 10-11 12-13 12-14 13-15

exact/norm bonds :

1-3 1-2 3-4 8-9 9-10 10-11 12-13 12-14 13-15

exact bonds :

4-5 5-6 6-7 7-8 8-12

Match level :

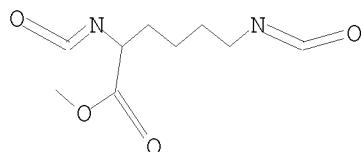
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 11:17:33 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 6155 TO ITERATE

32.5% PROCESSED 2000 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 118396 TO 127804

PROJECTED ANSWERS: 4822 TO 6872

L2 50 SEA SSS SAM L1

=> s 11 sam exact

SAMPLE SEARCH INITIATED 11:18:06 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED

0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L3 0 SEA EXA SAM L1

=> s 11 full exact
FULL SEARCH INITIATED 11:18:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 11 TO ITERATE

100.0% PROCESSED 11 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

L4 3 SEA EXA FUL L1

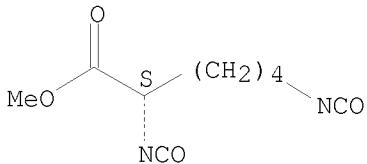
=> d 1-3

L4 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2007 ACS on STN
RN 245072-27-9 REGISTRY
ED Entered STN: 25 Oct 1999
CN Hexanoic acid, 2,6-diisocyanato-, methyl ester, (2S)-, trimer (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF (C9 H12 N2 O4)3
CI PMS, COM
SR CA

CM 1

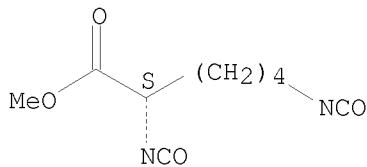
CRN 45158-78-9
CMF C9 H12 N2 O4

Absolute stereochemistry.



L4 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2007 ACS on STN
RN 45158-78-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Hexanoic acid, 2,6-diisocyanato-, methyl ester, (2S)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Hexanoic acid, 2,6-diisocyanato-, methyl ester, (S)-
FS STEREOSEARCH
DR 174465-94-2
MF C9 H12 N2 O4
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



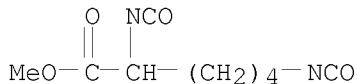
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

18 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 18 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 4460-02-0 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Hexanoic acid, 2,6-diisocyanato-, methyl ester (CA INDEX NAME)

OTHER NAMES:

CN LDI
 CN Lysine diisocyanate methyl ester
 CN Methyl α, ϵ -diisocyanatocapronate
 CN Methyl 2,6-diisocyanatocaproate
 DR 70332-53-5
 MF C9 H12 N2 O4
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST, IFICDB,
 IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

63 REFERENCES IN FILE CA (1907 TO DATE)
 24 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 63 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d his

(FILE 'HOME' ENTERED AT 11:16:39 ON 27 NOV 2007)

FILE 'REGISTRY' ENTERED AT 11:16:48 ON 27 NOV 2007

L1 STRUCTURE uploaded
 L2 50 S L1
 L3 0 S L1 SAM EXACT
 L4 3 S L1 FULL EXACT

=> file caplus			
COST IN U.S. DOLLARS		SINCE FILE	TOTAL
		ENTRY	SESSION
FULL ESTIMATED COST		65.90	66.11

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FILE COVERS 1907 - 27 Nov 2007 VOL 147 ISS 23
 FILE LAST UPDATED: 26 Nov 2007 (20071126/ED)

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<http://www.cas.org/infopolicy.html>

=> s 14
 L5 81 L4

=> s 14 and pentaerythritol
 81 L4
 28368 PENTAERYTHRITOL
 135 PENTAERYTHRITOLS
 28382 PENTAERYTHRITOL
 (PENTAERYTHRITOL OR PENTAERYTHRITOLS)
 L6 6 L4 AND PENTAERYTHRITOL

=> s 15 and pentaerythritol
 28368 PENTAERYTHRITOL
 135 PENTAERYTHRITOLS
 28382 PENTAERYTHRITOL
 (PENTAERYTHRITOL OR PENTAERYTHRITOLS)
 L7 6 L5 AND PENTAERYTHRITOL

=> d 1-6 ibib abs

L7 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:891337 CAPLUS <<LOGINID::20071127>>
 DOCUMENT NUMBER: 145:283219
 TITLE: Magnetic recording medium for disks and tapes
 INVENTOR(S): Murayama, Yuichiro; Hashimoto, Hiroshi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: U.S. Pat. Appl. Publ., 16pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006194081	A1	20060831	US 2006-353106	20060214
JP 2006236526	A	20060907	JP 2005-53414	20050228
PRIORITY APPLN. INFO.:			JP 2005-53414	A 20050228
AB	It is an object of the present invention to provide a magnetic recording medium having excellent smoothness and electromagnetic conversion characteristics, excellent longterm storage stability, few faults and little of the magnetic layer coming off during web transport in a production process, and excellent productivity. A magnetic recording medium is provided that comprises a nonmagnetic support and, in order there above, a radiation-cured layer cured by exposing a layer comprising a radiation curing compound to radiation, and a magnetic layer comprising a ferromagnetic powder dispersed in a binder, the radiation curing compound having a radiation curing functional group in the mol. and being derived from a diisocyanate that has a branched structure but does not have a cyclic structure.			

L7 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:1004798 CAPLUS <<LOGINID::20071127>>
 DOCUMENT NUMBER: 143:287176
 TITLE: Polymer compositions for dual or multistaged curing
 INVENTOR(S): Adhikari, Raju; Gunatillake, Pathiraja Arachchilage;
 Mayadunne, Roshan Tyrrel Anton
 PATENT ASSIGNEE(S): Commonwealth Scientific and Industrial Research
 Organisation, Australia
 SOURCE: PCT Int. Appl., 44 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005085313	A1	20050915	WO 2005-AU306	20050303
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005219453	A1	20050915	AU 2005-219453	20050303
EP 1720926	A1	20061115	EP 2005-706339	20050303
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1942498	A	20070404	CN 2005-80011412	20050303
JP 2007529572	T	20071025	JP 2007-501065	20050303
IN 2006DN05369	A	20070803	IN 2006-DN5369	20060918
US 2007225387	A1	20070927	US 2007-591606	20070329
PRIORITY APPLN. INFO.:			AU 2004-901109	A 20040303
			WO 2005-AU306	W 20050303

AB The present invention provides a polymer composition for use at least in surface coating applications and in fabrication of rigid foam with load bearing capacity comprising a base mol., a linker mol. and at least one

initiator compound, said base mol. having at least two differing functionalities, and said linker mol. having a functionality reactive with at least one functionality of said base mol., the first of said at least two functionalities of said base mol. enabling a first curing stage of said polymer composition by reaction with said linker mol., and the second and any further functionality of said base mol. enabling second and further curing stages of said polymer composition, said first, second and any further curing stages being capable of activation simultaneously or independently of each other as required. A further provides uses of the polymer compns. of the invention in surface coating and adhesives applications and in the preparation of rigid foam with load bearing capacity.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:1004797 CAPLUS <<LOGINID::20071127>>
 DOCUMENT NUMBER: 143:287175
 TITLE: Biocompatible polymer compositions for dual or multistaged curing
 INVENTOR(S): Adhikari, Raju; Gunatillake, Pathiraja Arachchillage; Mayadunne, Roshan Tyrrel Anton
 PATENT ASSIGNEE(S): Commonwealth Scientific and Industrial Research Organisation, Australia
 SOURCE: PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005085312	A1	20050915	WO 2005-AU305	20050303
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005219452	A1	20050915	AU 2005-219452	20050303
EP 1720925	A1	20061115	EP 2005-706338	20050303
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1942497	A	20070404	CN 2005-80011411	20050303
JP 2007526942	T	20070920	JP 2007-501064	20050303
IN 2006DN05371	A	20070817	IN 2006-DN5371	20060918
PRIORITY APPLN. INFO.:			AU 2004-901111	A 20040303
			WO 2005-AU305	W 20050303

AB The present invention provides a biocompatible polymer composition for use in biomedical applications comprising a base mol., a linker mol. and at least one initiator compound, said base mol. having at least two differing functionalities, and said linker mol. having a functionality reactive with at least one functionality of said base mol., the first of said at least two functionalities of said base mol. enabling a first curing stage of said polymer composition by reaction with said linker mol., and the second and any further functionality of said base mol. enabling second and further

curing stages of said polymer composition, said first, second and any further curing stages being capable of activation simultaneously or independently of each other as required. The invention further provides uses of the polymer compns. of the invention in biomedical applications such as tissue engineering, drug delivery, as a bioadhesive in wound healing, as bone substitutes or scaffolds, as cements in dental and periodontal applications and as anti-adhesives or protective barriers.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1980:43028 CAPLUS <<LOGINID::20071127>>
DOCUMENT NUMBER: 92:43028
TITLE: Manufacture of microcapsules
INVENTOR(S): Shitama, Wataru; Yoshimura, Haruhito; Niita, Mitsuru
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan
SOURCE: Jpn. Tokkyo Koho, 10 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54022949	B	19790810	JP 1970-59264	19700706

PRIORITY APPLN. INFO.: JP 1970-59264 A 19700706

AB Microencapsulation involved coaervation and crosslinking of a epoxy resin-cellulose capsule wall with polyisocyanate. For example, a solution from benzene 220, pentaerythritol diglycidyl ether 5, and 10% hydroxyethyl cellulose [9004-62-0] solution (in EtOH) 12 g was stirred with core material (from KCl 3, 1,10-phenanthroline 2, water 90, and polyethylene glycol 5 g) and 4 g 4,4'-diaminodiphenylmethane [101-77-9] at 20-30° for 2-3 h, treated with 440 mL benzene, and stirred with 20 g hexamethylene diisocyanate [822-06-0] to give 92 g 5-10- μ microcapsules with excellent core material retention and storability.

L7 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1967:19167 CAPLUS <<LOGINID::20071127>>
DOCUMENT NUMBER: 66:19167
ORIGINAL REFERENCE NO.: 66:3727a,3730a
TITLE: Polyurethans
INVENTOR(S): Garber, John D.; Wasserman, David; Gasser, Robert A.
PATENT ASSIGNEE(S): Merck and Co., Inc.
SOURCE: U.S., 9 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3281378		19661025	US 1963-285888	19601205
FR 86083			FR	
GB 1072956			GB	
GB 1072957			GB	

AB Esters of diisocyanate-substituted aliphatic acids are treated with polyhydroxy compds. to produce film-forming polyurethans. Thus, 445 parts linseed oil and 68 parts pentaerythritol (I) were transesterified by using Ca naphthenate and Me 2,6-diisocyanato caproate

(II) was added until the NCO/OH ratio was 1:1. The mixture was diluted to 60% solids with xylene and heated 3 hrs. at 90°. After addition of a Pb-Co drier, films were cast. The film was tack-free after 24 hrs., had better adhesion than a similarly prepared tolylene diisocyanate film, and yellowed only faintly after 500 hrs. under uv light. Other polymers were similarly prepared from II, trimethylolpropane (III), and 1,3-butanediol (IV); II and sorbitol; di-Me 2,6-diisocyanatopimelate, III, and 1,4-butanediol (V); octyl 2,6-diisocyanatocaproate and III; decyl 2,5-diisocyanatovalerate and III; stearyl 2,6-diisocyanatocaproate and glycerol (VI); dihexyl 2,6-diisocyanatopimelate and III; Me 2,5-diisocyanatovalerate (VII), VI, and ethylene glycol (VIII); VII, Voranol CP-260 (IX), and polypropylene glycol (X); Bu 2,5-diisocyanatovalerate, III, X, and IV; Et 2,6-diisocyanatocaproate, 1,2,6-hexanetriol (XI), and ethylene adipate; di-Me 2,9-diisocyanatosebacate, VI, and VIII; di-Et 2,6-diisocyanatopimelate, III, V, and X; Pr 2,6-diisocyanatocaproate (XII), and I, and 1,6-hexamethylene glycol; XII, III, and X; dodecyl 2,6-diisocyanatocaproate and I; hexyl 2,5-diisocyanatovalerate, and XI; di-Bu 2,6-diisocyanatopimelate (XIII) and IX; hexyl 2,6-diisocyanato caproate, VI, and V; di-Me 2,5-diisocyanato adipate and III; II, III, and X; VII and VI; XIII and IX; II, VI, and V; β -bromoethyl 2,6-diisocyanato caproate (XIV), and III; γ -chloropropyl 2,6-diisocyanato caproate and III; β -methoxyethyl 2,6-diisocyanato caproate (XV), VI, and diethylene glycol. All these polymers formed glossy, strongly adherent, nonyellowing films. A mixture of 1000 parts X (mol. weight 1000) and 1272 parts II was heated 6 hrs. at 80° and forced through a spinneret into a bath containing 580 parts hexamethylenediamine in 5000 parts water. The monofilament was stretched and dried, giving an elastic thread which did not yellow after exposure to sunlight. Pluronic L-61 diol 37.5, Tetronic 701 tetrool 12.5, and water 0.3 g. were mixed and 9.15 g. II was added. The mixture was heated to 80° in 45 min., held 2 hrs. at 80°, and cooled, and 11.2 g. II added. To 10.6 g. of this mixture, was added Silicone XL520 0.2, dibutyltin dilaurate 0.3, Et3N 0.3, and water 1.9 g. The mixture creamed in 2 min., rose completely in 8 min., was aged 16 hrs., and cured 2 hrs. at 250°F. to give a white, resilient, flexible foam which did not yellow after 2 weeks in sunlight. II was prepared by suspending 250 g. lysine-HCl in 2.5 l. absolute MeOH, passing anhydrous HCl into the mixture for 15 min., and stirring 15 hrs. at 25°. The product was precipitated with 1.5 l. Et2O, the solution filtered, and the residue washed with Et2O-MeOH and Et2O and dried. The lysine Me ester-HCl was ground, and 186 g. suspended in anhydrous redistd. o-Cl2C6H4. COCl2 passed through the solution 12 hrs. at 150-5°, the mixture cooled, flushed with N, and filtered, and the filtrate washed and vacuum distilled to give colorless II, b0.45 123°, n 24.5 D 1.4565. Octyl 2,6-diisocyanato caproate, b0,2 137-42°, is similarly prepared by using octanol and p-MeC6H4SO3H (XVI) for MeOH and HCl. XIV was prepared by using BrCH2CH2OH and HBr, giving a heavy, clear oil. XV, b0.2-0.3 135-7°, was prepared by using MeOCH2CH2OH and HCl. Ph 2,6-diisocyanato caproate was prepared by using NaOPh in HCO-NMe2, and the benzyl ester was prepared in PhCH2OH with XVI. Di-Me 2,6-diisocyanatopimelate and di-Me 2,5-diisocyanato adipate, b0.1 130°, were prepared with MeOH-HCl; and di-Et 2,9-diisocyanatosebacate with EtOH-HCl. The polymers can be used in films, coatings, castings, elastomers, foams, binders, and adhesives. They have good color, gloss retention, and phys. properties.

TITLE: Polyurethans
PATENT ASSIGNEE(S): Merck & Co., Inc.
SOURCE: 34 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
NL 6406398		19641207	NL 1964-6398	19640605
PRIORITY APPLN. INFO.:			US	19630606

AB An alkyl, alkoxy alkyl, aryl, alkaryl, aralkyl (possibly halo substituted) ester or diester of an acid of the general formula R3CH(NCO)R2CH(NCO)CO2H (R3 = H or CO2H; R2 is an alkylene or alkylidene group) was mixed with a polyol, e.g. trimethylolpropane, 1,3- or 1,4-butyleneglycol, glycerol, or pentaerythritol, to obtain a NCO/OH ratio of 1-6. This mixture was then heated at 20-100° during 4 hrs. The products were used in the manufacture of films, coatings, adhesives, moldings, and binders which remain glossy and do not turn yellow. For example, 90 parts 1,4-butanediol, 134 parts trimethylolpropane, and 1080 parts di-Me 2,6-diisocyanatopimelate were mixed in 200 g. Me Cellosolve acetate and 200 g. xylene and heated 3 hrs. at 80°. PhOH (282 parts) was then added, and after cooling at room temperature, 1500 parts polypropylene glycol (mol. weight 1000) was also added. The resulting composition was coated on metal plates and cured at 205° to hard, light-stable films. Such films were also formed from a composition prepared by heating at 70-75° 9.3 parts octyl 2,6-diisocyanatocaproate and 1.34 parts H2O-free trimethylol-propane to obtain a NCO content of 10.8%, followed by dilution of the product in ligroine at a solid content of 70%.

=> FIL STNGUIDE			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	24.29	90.40	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
	ENTRY	SESSION	
CA SUBSCRIBER PRICE	-4.68	-4.68	

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 3 JUL 02 SCISEARCH enhanced with complete author names
NEWS 4 JUL 02 CHEMCATS accession numbers revised
NEWS 5 JUL 02 CA/CAplus enhanced with utility model patents from China
NEWS 6 JUL 16 CAplus enhanced with French and German abstracts
NEWS 7 JUL 18 CA/CAplus patent coverage enhanced
NEWS 8 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9 JUL 30 USGENE now available on STN
NEWS 10 AUG 06 CAS REGISTRY enhanced with new experimental property tags
NEWS 11 AUG 06 FSTA enhanced with new thesaurus edition
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NEWS 15 AUG 27 USPATOLD now available on STN
NEWS 16 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 17 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 18 SEP 13 FORIS renamed to SOFIS
NEWS 19 SEP 13 INPADOCDB enhanced with monthly SDI frequency
NEWS 20 SEP 17 CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 21 SEP 17 CAplus coverage extended to include traditional medicine patents
NEWS 22 SEP 24 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 23 OCT 02 CA/CAplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS 24 OCT 19 BEILSTEIN updated with new compounds
NEWS 25 NOV 15 Derwent Indian patent publication number format enhanced
NEWS 26 NOV 19 WPIX enhanced with XML display format

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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DICTIONARY FILE UPDATES: 26 NOV 2007 HIGHEST RN 955995-34-3

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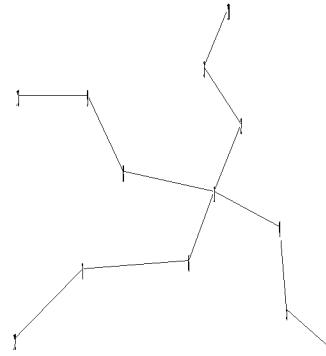
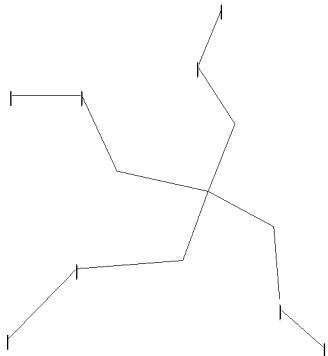
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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chain bonds :
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exact/norm bonds :
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exact bonds :

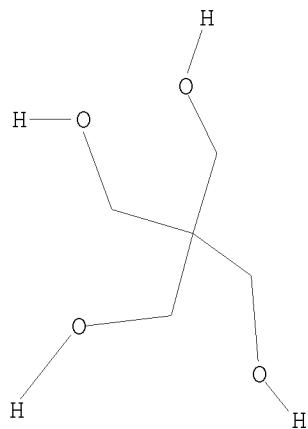
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1-2 1-4 1-6 1-8 3-10 5-11 7-12 9-13

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

=> d 11
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11 full exact
FULL SEARCH INITIATED 11:56:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 55 TO ITERATE
100.0% PROCESSED 55 ITERATIONS 14 ANSWERS
SEARCH TIME: 00.00.01

L2 14 SEA EXA FUL L1

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Uploading C:\Documents and Settings\pdickinson\My Documents\hexanoate.str

chain nodes :
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1-3 1-2 3-4 4-5 5-6 6-7 7-8 8-9 8-12 9-10 10-11 12-13 12-14 13-15
exact/norm bonds :
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exact bonds :

4-5 5-6 6-7 7-8 8-12

Match level :

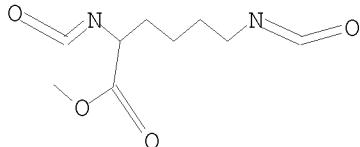
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L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 13 full exact

FULL SEARCH INITIATED 11:57:33 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 11 TO ITERATE

100.0% PROCESSED 11 ITERATIONS
SEARCH TIME: 00.00.01

3 ANSWERS

L4 3 SEA EXA FUL L3

=> file reg
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
116.50	117.13

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DICTIONARY FILE UPDATES: 26 NOV 2007 HIGHEST RN 955995-34-3

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

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=> d his

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FILE 'REGISTRY' ENTERED AT 11:56:12 ON 27 NOV 2007
L1 STRUCTURE uploaded
L2 14 S L1 FULL EXACT
L3 STRUCTURE uploaded
L4 3 S L3 FULL EXACT

FILE 'REGISTRY' ENTERED AT 11:57:36 ON 27 NOV 2007

=> s 12 and 14
L5 0 L2 AND L4

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=> s 12
SAMPLE SEARCH INITIATED 11:58:09 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 7997 TO ITERATE
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25.0% PROCESSED 2000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED ITERATIONS: 154580 TO 165300
PROJECTED ANSWERS: 3653 TO 5463
BATCH **COMPLETE**

L6 50 SEA SSS SAM L1

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=> s 14
SAMPLE SEARCH INITIATED 11:58:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      6155 TO ITERATE
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32.5% PROCESSED 2000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:	ONLINE	**COMPLETE**	
	BATCH	**COMPLETE**	
PROJECTED ITERATIONS:	118396	TO	127804
PROJECTED ANSWERS:	4822	TO	6872

L7 50 SEA SSS SAM L3

=> s 12 or pentaerythritol
7052 PENTAERYTHRITOL
L8 7061 L2 OR PENTAERYTHRITOL

=> s 14 or (methyl 2,6-diisocyanato hexanoate or 2,6-diisocyanato methyl hexanoate or 2,6-diisocyanato caproic acid or lysine diisocyanate)
19829858 METHYL
98 METHYLS
19829858 METHYL
(METHYL OR METHYLS)

844848 2,6
 38732 DIISOCYANATO
 8626 HEXANOATE
 9 HEXANOATES
 8626 HEXANOATE
 (HEXANOATE OR HEXANOATES)
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 (METHYL(W) 2,6(W) DIISOCYANATO(W) HEXANOATE)
 844848 2,6
 38732 DIISOCYANATO
 19829858 METHYL
 98 METHYLS
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 (HEXANOATE OR HEXANOATES)
 0 2,6-DIISOCYANATO METHYL HEXANOATE
 (2,6(W) DIISOCYANATO(W) METHYL(W) HEXANOATE)
 844848 2,6
 38732 DIISOCYANATO
 982 CAPROIC
 8951497 ACID
 8250 ACIDS
 8957451 ACID
 (ACID OR ACIDS)
 2 2,6-DIISOCYANATO CAPROIC ACID
 (2,6(W) DIISOCYANATO(W) CAPROIC(W) ACID)
 125040 LYSINE
 9661 DIISOCYANATE
 3 DIISOCYANATES
 9661 DIISOCYANATE
 (DIISOCYANATE OR DIISOCYANATES)
 37 LYSINE DIISOCYANATE
 (LYSINE(W) DIISOCYANATE)
 L9 124 L4 OR (METHYL 2,6-DIISOCYANATO HEXANOATE OR 2,6-DIISOCYANATO
 METHYL HEXANOATE OR 2,6-DIISOCYANATO CAPROIC ACID OR LYSINE
 DIISOCYANATE)

 => s 17 and 19
 L10 0 L7 AND L9

 => d his

 (FILE 'HOME' ENTERED AT 11:54:25 ON 27 NOV 2007)

 FILE 'REGISTRY' ENTERED AT 11:56:12 ON 27 NOV 2007
 L1 STRUCTURE uploaded
 L2 14 S L1 FULL EXACT
 L3 STRUCTURE uploaded
 L4 3 S L3 FULL EXACT

 FILE 'REGISTRY' ENTERED AT 11:57:36 ON 27 NOV 2007
 L5 0 S L2 AND L4
 L6 50 S L2
 L7 50 S L4
 L8 7061 S L2 OR PENTAERYTHRITOL
 L9 124 S L4 OR (METHYL 2,6-DIISOCYANATO HEXANOATE OR 2,6-DIISOCYANATO
 L10 0 S L7 AND L9

=> s 18 and 19
L11 0 L8 AND L9

=> fil caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
76.50	193.63

FILE 'CAPLUS' ENTERED AT 12:00:41 ON 27 NOV 2007
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FILE LAST UPDATED: 26 Nov 2007 (20071126/ED)

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<http://www.cas.org/infopolicy.html>

=> s 18 and 19
42046 L8
252 L9
L12 12 L8 AND L9

=> d 1-12 ibib abs

L12 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:38171 CAPLUS <<LOGINID::20071127>>
DOCUMENT NUMBER: 146:148986
TITLE: Wound healing polymeric networks based on DOPA
INVENTOR(S): Beckman, Eric J.
PATENT ASSIGNEE(S): University of Pittsburgh, USA
SOURCE: PCT Int. Appl., 70pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007005792	A2	20070111	WO 2006-US25915	20060701
WO 2007005792	A3	20070621		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU,				

SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,
US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

US 2007014755 A1 20070118 US 2006-479627 20060701
PRIORITY APPLN. INFO.: US 2005-695912P P 20050701
US 2006-789372P P 20060405

AB A composition includes at least one biol. active agent covalently attached to a first polymerizing mol. that is adapted to undergo a free radical polymerization. The first polymerizing mol. retains the ability to undergo free radical polymerization

after attachment of the bioactive agent thereto. The first polymerizing mol. is preferably biocompatible. The polymerizing mol. can, for example, be dihydroxyphenyl-L-alanine (DOPA) or tyrosine. The composition can also include a second component synthesized by reacting at least one core mol. having a plurality of reactive hydrogen groups with at least one multi-isocyanate functional mol. to create a conjugate including terminal isocyanate groups. The conjugate mol. is reacted with a second polymerizing mol. that is adapted to undergo a free radical polymerization. The second polymerizing mol. includes a reactive hydrogen to react with the isocyanate groups of the conjugate. The second polymerizing mol. retains the ability to undergo the free radical polymerization after reaction with the conjugate. In several embodiments, the first polymerizing mol. and the second polymerizing mol. are the same and DOPA or tyrosine.

L12 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:891337 CAPLUS <<LOGINID::20071127>>
DOCUMENT NUMBER: 145:283219
TITLE: Magnetic recording medium for disks and tapes
INVENTOR(S): Murayama, Yuichiro; Hashimoto, Hiroshi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: U.S. Pat. Appl. Publ., 16pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006194081	A1	20060831	US 2006-353106	20060214
JP 2006236526	A	20060907	JP 2005-53414	20050228

PRIORITY APPLN. INFO.: JP 2005-53414 A 20050228

AB It is an object of the present invention to provide a magnetic recording medium having excellent smoothness and electromagnetic conversion characteristics, excellent longterm storage stability, few faults and little of the magnetic layer coming off during web transport in a production process, and excellent productivity. A magnetic recording medium is provided that comprises a nonmagnetic support and, in order there above, a radiation-cured layer cured by exposing a layer comprising a radiation curing compound to radiation, and a magnetic layer comprising a ferromagnetic powder dispersed in a binder, the radiation curing compound having a radiation curing functional group in the mol. and being derived from a diisocyanate that has a branched structure but does not have a cyclic structure.

L12 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:1004798 CAPLUS <<LOGINID::20071127>>
 DOCUMENT NUMBER: 143:287176
 TITLE: Polymer compositions for dual or multistaged curing
 INVENTOR(S): Adhikari, Raju; Gunatillake, Pathiraja Arachchilage;
 Mayadunne, Roshan Tyrrel Anton
 PATENT ASSIGNEE(S): Commonwealth Scientific and Industrial Research
 Organisation, Australia
 SOURCE: PCT Int. Appl., 44 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005085313	A1	20050915	WO 2005-AU306	20050303
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005219453	A1	20050915	AU 2005-219453	20050303
EP 1720926	A1	20061115	EP 2005-706339	20050303
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1942498	A	20070404	CN 2005-80011412	20050303
JP 2007529572	T	20071025	JP 2007-501065	20050303
IN 2006DN05369	A	20070803	IN 2006-DN5369	20060918
US 2007225387	A1	20070927	US 2007-591606	20070329
PRIORITY APPLN. INFO.:			AU 2004-901109	A 20040303
			WO 2005-AU306	W 20050303

AB The present invention provides a polymer composition for use at least in surface coating applications and in fabrication of rigid foam with load bearing capacity comprising a base mol., a linker mol. and at least one initiator compound, said base mol. having at least two differing functionalities, and said linker mol. having a functionality reactive with at least one functionality of said base mol., the first of said at least two functionalities of said base mol. enabling a first curing stage of said polymer composition by reaction with said linker mol., and the second and any further functionality of said base mol. enabling second and further curing stages of said polymer composition, said first, second and any further curing stages being capable of activation simultaneously or independently of each other as required. A further provides uses of the polymer compns. of the invention in surface coating and adhesives applications and in the preparation of rigid foam with load bearing capacity.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:1004797 CAPLUS <<LOGINID::20071127>>
 DOCUMENT NUMBER: 143:287175
 TITLE: Biocompatible polymer compositions for dual or multistaged curing

INVENTOR(S): Adhikari, Raju; Gunatillake, Pathiraja Arachchillage;
 Mayadunne, Roshan Tyrrel Anton
 PATENT ASSIGNEE(S): Commonwealth Scientific and Industrial Research
 Organisation, Australia
 SOURCE: PCT Int. Appl., 50 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005085312	A1	20050915	WO 2005-AU305	20050303
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005219452	A1	20050915	AU 2005-219452	20050303
EP 1720925	A1	20061115	EP 2005-706338	20050303
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1942497	A	20070404	CN 2005-80011411	20050303
JP 2007526942	T	20070920	JP 2007-501064	20050303
IN 2006DN05371	A	20070817	IN 2006-DN5371	20060918
PRIORITY APPLN. INFO.:			AU 2004-901111	A 20040303
			WO 2005-AU305	W 20050303

AB The present invention provides a biocompatible polymer composition for use in biomedical applications comprising a base mol., a linker mol. and at least one initiator compound, said base mol. having at least two differing functionalities, and said linker mol. having a functionality reactive with at least one functionality of said base mol., the first of said at least two functionalities of said base mol. enabling a first curing stage of said polymer composition by reaction with said linker mol., and the second and any further functionality of said base mol. enabling second and further curing stages of said polymer composition, said first, second and any further curing stages being capable of activation simultaneously or independently of each other as required. The invention further provides uses of the polymer compns. of the invention in biomedical applications such as tissue engineering, drug delivery, as a bioadhesive in wound healing, as bone substitutes or scaffolds, as cements in dental and periodontal applications and as anti-adhesives or protective barriers.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:256401 CAPLUS <<LOGINID::20071127>>
 DOCUMENT NUMBER: 142:298755
 TITLE: Manufacture of oligo(meth)acrylate compositions, the oligo(meth)acrylate compositions obtained thereby, curing of the compositions, and cured products obtained thereby
 INVENTOR(S): Shimamura, Kenji; Oyama, Yasuyuki
 PATENT ASSIGNEE(S): Showa Denko K. K., Japan; DJK Laboratories Inc.

SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005075973	A	20050324	JP 2003-310092	20030902
PRIORITY APPLN. INFO.:			JP 2003-310092	20030902

AB The compns. are manufactured by (1) preparation of polyester (meth)acrylates by reaction of mixts. comprising (A) polybasic acid anhydrides, polybasic acids, and/or polybasic acid esters, (B) compds. having (meth)acryloyl group(s), and (C) (trans)esterification catalysts and (2) reaction of the resulting reaction mixts. with compds. having ≥ 1 NCO, and are cured by addition of radical initiators to the compns. Thus, 625 g 2-hydroxyethyl methacrylate was esterified with 296 g phthalic anhydride at 165-175° in the presence of hydroquinone, p-methoxyphenol, and triphenylantimony and further treated with 90 g TDI at 80° to give an oligomethacrylate composition, 70 parts of which was mixed with 30 parts phenoxyethyl methacrylate (Light Ester PO) to give an oligomethacrylate showing acid value 28 mg-KOH/g, OH value 18 g-KOH/g, viscosity 380 mPa-s at 25°, gel time 2 min, min. curing time 4 min at an ambient temperature, and good water resistance of its cured product.

L12 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:902384 CAPLUS <<LOGINID::20071127>>

DOCUMENT NUMBER: 139:382393

TITLE: Radiation-curable compositions containing bis(4-mercaptophenyl) sulfide (meth)acrylate, and high-refractive index films and antireflective films therefrom, and reflection prevention

INVENTOR(S): Chikaoka, Satoyuki; Takahashi, Toshiyuki

PATENT ASSIGNEE(S): Asahi Denka Kogyo K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003327624	A	20031119	JP 2002-134977	20020510
JP 4010490	B2	20071121		

PRIORITY APPLN. INFO.: JP 2002-134977 20020510

AB Title compns. contain all-p-H2C:CRCOSC6H4SC6H4SCOCR:CH2 (I: R = H, Me), radical polymerization initiators, and solvents. Thus, I (R = Me) 100, 2,4,6-trimethylbenzoyldiphenylphosphine oxide 4, and MEK 100 parts were mixed, spin coated on a glass plate, dried, and UV irradiated to give a 8 μ m-thick scratch-resistant film, which showed refractive index 1.70 and pencil hardness 2H.

L12 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:172501 CAPLUS <<LOGINID::20071127>>

DOCUMENT NUMBER: 136:233659

TITLE: Stable aqueous polymer dispersions for coating vehicle

INVENTOR(S): Nothnagel, Joseph Leo; Coad, Michael Davis; He,

Minsbo; Fletcher, Jean Elizabeth Marie

PATENT ASSIGNEE(S): McWhorter Technologies, Inc., USA; Eastman Chemical

Co.
 SOURCE: U.S. Pat. Appl. Publ., 18 pp., Cont.-in-part of U.S.
 6,277,953.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002028874	A1	20020307	US 2001-828718	20010405
US 6734251	B2	20040511		
US 6277953	B1	20010821	US 1998-161145	19980925
ZA 2001002650	A	20020701	ZA 2001-2650	20010330
ZA 2001002663	A	20020930	ZA 2001-2663	20010330
AU 2001288981	A1	20030324	AU 2001-288981	20010910
EP 1427789	A1	20040616	EP 2001-968756	20010910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
CN 1549849	A	20041124	CN 2001-823609	20010910
JP 2005527645	T	20050915	JP 2003-527013	20010910
US 2004186227	A1	20040923	US 2004-768345	20040130
PRIORITY APPLN. INFO.:				
			US 1998-161145	A2 19980925
			US 1998-160843	B2 19980925
			WO 2001-US28284	W 20010910
			US 2001-952819	A1 20010914

AB The title dispersions have <2% organic solvent, at least 30% solid content, a mean particle size not larger than 400 nm, and a viscosity <20.0 P at ambient temperature and comprise: (A) a neutralized polymer in water or a cosolvent and (B) an isocyanate crosslinking agent, wherein A has an acid number 4-70 prior to neutralization and a solubility \geq 50% in hydrophilic organic solvent having a solubility >5% in water and is selected from alkyd resin
 (or styrene-modified alkyd), epoxy ester, acrylic and polyester.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2001:474246 CAPLUS <>LOGINID::20071127>>
 DOCUMENT NUMBER: 135:77330
 TITLE: Building blocks containing isocyanate groups and their use for functionalizing or modifying compounds or surfaces
 INVENTOR(S): Bruchmann, Bernd; Treuling, Ulrich
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
 SOURCE: U.S. Pat. Appl. Publ., 7 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2001005738	A1	20010628	US 2000-726045	20001130
US 6913629	B2	20050705		
DE 19962272	A1	20010628	DE 1999-19962272	19991223
EP 1110946	A2	20010627	EP 2000-124605	20001110
EP 1110946	A3	20020424		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.:

DE 1999-19962272

A 19991223

OTHER SOURCE(S): MARPAT 135:77330

AB Compds. of OCNR1NHCOXR2Yn, where X is a covalent bond to R2 or is O, S or NR3, Y is a hydrogen atom or a free functional group and n is an integer from 1 to 20, can be used for functionalizing or modifying compds. or solid surfaces which have at least one group which is reactive toward isocyanate. Thus, a water soluble Astramol dendric polyamine was treated with a NCO-containing monourethane obtained from HDI and cis-9-octadecen-1-ol to give a water-insol. dendrimer.

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:236543 CAPLUS <<LOGINID::20071127>>

DOCUMENT NUMBER: 130:312916

TITLE: Compositions containing thiols, glycidyl compounds, and isocyanates for optical materials, transparent plastic lens having high refractive index and abbe number, and their manufacture

INVENTOR(S): Ichikawa, Yukio; Machida, Katsuichi; Shoji, Masuhiro; Yamamoto, Katsumasa; Wakimura, Kenichi; Ikeda, Katsuya; Suzuki, Michio

PATENT ASSIGNEE(S): Sumitomo Seika K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11100428	A	19990413	JP 1997-261427	19970926
			JP 1997-261427	19970926

PRIORITY APPLN. INFO.:

AB Title compns. comprise (A) 60-100% compds. having mol. weight ≥ 250 , $\geq 30\%$ S, and ≥ 3 thiol group per mol. (a1) and 0-40% compds. having ≥ 2 thiol group per mol. other than a1, (B) compds. having ≥ 2 thioglycidyl and/or glycidyl groups, (C) compds. having ≥ 2 isocyanate and/or glycidyl groups and satisfy the formula $(Y + Z)/X = 0.70-1.50$, $Y/Z = 0.10-0.90$, and $Z/X = 0.10-1.40$ (X = mol number of thiol group in A component, Y = total mol number of glycidyl and thioglycidyl groups in B component, Z = total mol number of isocyanate and isothiocyanate group in C component). Thus, tetrakis(7-mercaptop-2,5-dithiaheptyl)methane 54, 70% thioglycidylated bis[4-(2,3-epoxypropylthio)phenyl]sulfide 31, xylylene diisocyanate 15 parts was mixed and molded to give a transparent lens showing refractive index 1.689 and abbe number 30.1.

L12 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:43028 CAPLUS <<LOGINID::20071127>>

DOCUMENT NUMBER: 92:43028

TITLE: Manufacture of microcapsules

INVENTOR(S): Shitama, Wataru; Yoshimura, Haruhito; Niita, Mitsuru

PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan

SOURCE: Jpn. Tokyo Koho, 10 pp.

CODEN: JAXXAD

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54022949	B	19790810	JP 1970-59264	19700706
PRIORITY APPLN. INFO.:			JP 1970-59264	A 19700706
AB	Microencapsulation involved coaervation and crosslinking of a epoxy resin-cellulose capsule wall with polyisocyanate. For example, a solution from benzene 220, pentaerythritol diglycidyl ether 5, and 10% hydroxyethyl cellulose [9004-62-0] solution (in EtOH) 12 g was stirred with core material (from KCl 3, 1,10-phenanthroline 2, water 90, and polyethylene glycol 5 g) and 4 g 4,4'-diaminodiphenylmethane [101-77-9] at 20-30° for 2-3 h, treated with 440 mL benzene, and stirred with 20 g hexamethylene diisocyanate [822-06-0] to give 92 g 5-10-μ microcapsules with excellent core material retention and storability.			

L12 ANSWER 11 OF 12	CAPLUS	COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:	1976:60434	CAPLUS <<LOGINID::20071127>>
DOCUMENT NUMBER:	84:60434	
ORIGINAL REFERENCE NO.:	84:9961a,9964a	
TITLE:	Polyester resin composition for powder coatings	
INVENTOR(S):	Takeo, Kozi; Kato, Takashige; Toyota, Yoshino; Nakagi, Akio	
PATENT ASSIGNEE(S):	Japan Ester Co., Ltd., Japan	
SOURCE:	Ger. Offen., 39 pp.	
	CODEN: GWXXBX	
DOCUMENT TYPE:	Patent	
LANGUAGE:	German	
FAMILY ACC. NUM. COUNT:	1	
PATENT INFORMATION:		

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2514816	A1	19751016	DE 1975-2514816	19750404
JP 50130819	A	19751016	JP 1974-38141	19740404
JP 58030346	B	19830628		
US 3991034	A	19761109	US 1975-564979	19750403
NL 7504029	A	19751007	NL 1975-4029	19750404
FR 2266725	A1	19751031	FR 1975-10671	19750404
FR 2266725	B1	19810320		
GB 1467611	A	19770316	GB 1975-14014	19750404
CH 606254	A5	19781130	CH 1975-4280	19750404
PRIORITY APPLN. INFO.:			JP 1974-38141	A 19740404
AB	Polyester compns. containing alkyl p-hydroxybenzoate-blocked polyisocyanate crosslinking agents in place of the phenol blocked polyisocyanates usually used cured rapidly at 140-200° but did not crosslink at <120° (facilitating mixing with pigments and additives) and when used for electrostatic coating minimized the formation of bubbles, increased flow on heating, and produced tough glossy coatings. The polyesters had average d.p. 5-50 and softening point 45-120° and were prepared from terephthalic acid, glycols, and ≥1 aliphatic dicarboxylic acid, hydroxy acid, and(or) polyol to reduce the polymer softening point. Thus, a mixture of di-Me terephthalate 56, methyl p-hydroxyethoxybenzoate 34, adipic acid 10, ethylene glycol 126, and neopentyl glycol 40 parts was heated in the presence of zinc acetate and the product was polycondensed in the presence of (PhO ₃)P and Sb ₂ O ₃ at 270°/0.5 mm to give an adipic acid-ethylene glycol-methyl p-hydroxyethoxybenzoate-dimethyl terephthalate-neopentyl glycol polymer (I) [53563-85-2] with intrinsic viscosity 0.70 and terminal carboxyl groups 21.2 g-equivalent/1000 kg. A blocked isocyanate prepared by treating 50 moles triphenylmethane triisocyanate [25656-78-4] with isopropyl p-hydroxybenzoate [4191-73-5] was combined with I, the mixture was			

pulverized, and the powder was used to electrostatically coat a steel plate. The 100 μ coating had good resistance to impact, heat, chems., and aging.

L12 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1967:19167 CAPLUS <<LOGINID::20071127>>
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INVENTOR(S): Garber, John D.; Wasserman, David; Gasser, Robert A.
PATENT ASSIGNEE(S): Merck and Co., Inc.
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3281378	-----	19661025	US 1963-285888	19601205
FR 86083	-----		FR	
GB 1072956	-----		GB	
GB 1072957	-----		GB	

AB Esters of diisocyanate-substituted aliphatic acids are treated with polyhydroxy compds. to produce film-forming polyurethans. Thus, 445 parts linseed oil and 68 parts pentaerythritol (I) were transesterified by using Ca naphthenate and Me 2,6-diisocyanato caproate (II) was added until the NCO/OH ratio was 1:1. The mixture was diluted to 60% solids with xylene and heated 3 hrs. at 90°. After addition of a Pb-Co drier, films were cast. The film was tack-free after 24 hrs., had better adhesion than a similarly prepared tolylene diisocyanate film, and yellowed only faintly after 500 hrs. under uv light. Other polymers were similarly prepared from II, trimethylolpropane (III), and 1,3-butanediol (IV); II and sorbitol; di-Me 2,6-diisocyanatopimelate, III, and 1,4-butanediol (V); octyl 2,6-diisocyanatocaproate and III; decyl 2,5-diisocyanatovaleate and III; stearyl 2,6-diisocyanatocaproate and glycerol (VI); dihexyl 2,6-diisocyanatopimelate and III; Me 2,5-diisocyanatovaleate (VII), VI, and ethylene glycol (VIII); VII, Voranol CP-260 (IX), and polypropylene glycol (X); Bu 2,5-diisocyanatovaleate, III, X, and IV; Et 2,6-diisocyanatocaproate, 1,2,6-hexanetriol (XI), and ethylene adipate; di-Me 2,9-diisocyanatosebacate, VI, and VIII; di-Et 2,6-diisocyanatopimelate, III, V, and X; Pr 2,6-diisocyanatocaproate (XII), and I, and 1,6-hexamethylene glycol; XII, III, and X; dodecyl 2,6-diisocyanatocaproate and I; hexyl 2,5-diisocyanatovaleate, and XI; di-Bu 2,6-diisocyanatopimelate (XIII) and IX; hexyl 2,6-diisocyanato caproate, VI, and V; di-Me 2,5-di-isocyanato adipate and III; II, III, and X; VII and VI; XIII and IX; II, VI, and V; β -bromoethyl 2,6-diisocyanato caproate (XIV), and III; γ -chloropropyl 2,6-diisocyanato caproate and III; β -methoxyethyl 2,6-diisocyanato caproate (XV), VI, and diethylene glycol. All these polymers formed glossy, strongly adherent, nonyellowing films. A mixture of 1000 parts X (mol. weight 1000) and 1272 parts II was heated 6 hrs. at 80° and forced through a spinneret into a bath containing 580 parts hexamethylenediamine in 5000 parts water. The monofilament was stretched and dried, giving an elastic thread which did not yellow after exposure to sunlight. Pluronic L-61 diol 37.5, Tetronic 701 tetrol 12.5, and water 0.3 g. were mixed and 9.15 g. II was added. The mixture was heated to 80° in 45 min., held 2 hrs. at 80°, and cooled, and 11.2 g. II added. To 10.6 g. of this mixture, was added Silicone XL520 0.2, dibutyltin dilaurate 0.3, Et3N 0.3, and water 1.9 g. The mixture creamed in

2 min., rose completely in 8 min., was aged 16 hrs., and cured 2 hrs. at 250°F. to give a white, resilient, flexible foam which did not yellow after 2 weeks in sunlight. II was prepared by suspending 250 g. lysine-HCl in 2.5 l. absolute MeOH, passing anhydrous HCl into the mixture for

15

min., and stirring 15 hrs. at 25°. The product was precipitated with 1.5 l. Et2O, the solution filtered, and the residue washed with Et2O-MeOH and Et2O and dried. The lysine Me ester-HCl was ground, and 186 g. suspended in anhydrous redistd. o-C12C6H4. COCl2 passed through the solution 12 hrs. at 150-5°, the mixture cooled, flushed with N, and filtered, and the filtrate washed and vacuum distilled to give colorless II, b0.45 123°, n 24.5 D 1.4565. Octyl 2,6-diisocyanato caproate, b0.2 137-42°, is similarly prepared by using octanol and p-MeC6H4SO3H (XVI) for MeOH and HCl. XIV was prepared by using BrCH2CH2OH and HBr, giving a heavy, clear oil. XV, b0.2-0.3 135-7°, was prepared by using MeOCH2CH2OH and HCl. Ph 2,6-diisocyanato caproate was prepared by using NaOPh in HCO-NMe2, and the benzyl ester was prepared in PhCH2OH with XVI. Di-Me 2,6-diisocyanatopimelate and di-Me 2,5-diisocyanato adipate, b0.1 130°, were prepared with MeOH-HCl; and di-Et 2,9-diisocyanatosebacate with EtOH-HCl. The polymers can be used in films, coatings, castings, elastomers, foams, binders, and adhesives. They have good color, gloss retention, and phys. properties.

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	45.71	239.34	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
	ENTRY	SESSION	
CA SUBSCRIBER PRICE	-9.36	-9.36	

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